

METERING PUMP WITH PROPORTIONAL OUTPUT

Abstract of the Disclosure

A metering pump includes an actuating mechanism, and a plurality of piston cylinders coupled to the actuating mechanism. A first of the cylinders has a working volume that differs from a second of the cylinders. The actuating member is centrally located and the cylinders are arranged radially about the actuating mechanism. The working volume of the cylinders can be varied by adjusting the spacing of the cylinders from the actuating mechanism, thus varying the stroke of pistons housed within the cylinders, and/or by providing the cylinders with different inner diameters. A method of metering fluids includes independently adjusting stroke of a plurality of pistons to adjust the volume of metered fluid, and selecting different cylinder diameters to adjust the volume of metered fluid.

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